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(54) SHEETLIKE MATERIAL FOR LIQUID ABSORPTION

(57)Abstract:

PURPOSE: To enable uniform discharging of liquid to be attained and to obtain a superior liquid absorption and liquid holding capability and stable formation by a method wherein fibers are connected in a three-dimensional manner to form a nonwoven structural layer, knitted fabrics are combined with the nonwoven fabric layer to form an integral sheetlike material and then polymer resilient member is filled in its clearances.

CONSTITUTION: In the case of this liquid absorbing sheetlike material, a quite fine continuous inter-fiber clearance may generate a capillary effect to realize a superior liquid absorbing power and a continuous liquid absorbing capability. In addition, it may provide a superior form stability without damaging the liquid absorbing characteristic under a presence of nonwoven fabric and the like. The nonwoven fabric layer may produce sufficiently a capillary effect and at the same time the fibers are tangled in a three dimensional manner. An integral formation of the nonwoven fabric and the knitted fabric is carried out through a connection of fibers. Movement of these liquids can be performed to each other and so a liquid absorbing characteristic is not entirely damaged. The polymer resilient member is preferably polyurethane capable of providing porous structure.

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